

Set	Items	Description
S1	0	"TRAVEL DISTANCE" AND GPS? AND (ALARM? OR WA
S2	0	"TRAVEL DISTANCE" AND GPS? AND (ALARM? OR WA
S3	0	(TRAVEL? (3N) DISTANCE) AND GPS? AND (ALARM?
S4	64	(TRAVEL? (3N) DISTANCE) AND GPS?
S5	0	(TRAVEL? (3N) DISTANCE) AND GPS? AND EXCEED?
S6	0	(COMPUT? (S) (TRAVEL? (3N) DISTANCE)) AND GP
S7	11	(COMPUT? (S) (TRAVEL? (3N) DISTANCE)) AND GP
S8	9	RD (unique items)
S9	0	(DEFORMED (2N) MAP?) AND ROAD AND SECTION? A
S10	0	(DEFORMED (2N) MAP?) AND ROAD AND SECTION?
S11	5	(DEFORMED (2N) MAP?) AND SECTION?
S12	3	RD (unique items)
S13	0	(MOVING (2N) QUER?) AND (BOUND? (2N) BOX?) A DIRECTION?
S14	0	(MOVING (2N) QUER?) AND (BOUND? (2N) BOX?) A DIRECTION?
S15	3	(MOVING (2N) QUER?) AND (BOUND? (2N) BOX?)
S16	3	S15 AND INDEX?
S17	1	S16 AND (QUER? (2N) INDEX?)
?		

T S15/3, KWIC/1-3

15/3, KWIC/1 (Item 1 from file: 8)

DIALOG(R) File 8:Ei Compendex(R)

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07970660 E.I. No: EIP06169825180

Title: Processing moving queries over moving motion-adaptive indexes

Author: Gedik, Bugra; Liu, Ling

Corporate Source: College of Computing Georgia Institute Atlanta, GA 30332-0280, United States

Source: IEEE Transactions on Knowledge and Data Engineering 2006. p 651-668

Publication Year: 2006

CODEN: ITKEEH ISSN: 1041-4347

DOI: 10.1109/TKDE.2006.81

Language: English

Title: Processing moving queries over moving motion-adaptive indexes

Abstract: This paper describes a motion-adaptive indexing efficient evaluation of moving continual queries (MCQs) objects. It uses the concept of motion-sensitive bounding to model moving objects and moving queries. These bound automatically adapt their sizes to the dynamic motion behavior individual objects. Instead of indexing...

...object positions, we index less frequently changing object MSBs, where updates to the bounding boxes are needed only when queries move across the boundaries of their boxes. To decrease the number of updates to the indexes. More importantly predictive...

...to optimistically precalculate query results, decreasing searches on the indexes. Motion-sensitive bounding boxes incrementally update the predictive query results. Furthermore introduce the concepts of...

...show that the proposed motion-adaptive indexing scheme is the evaluation of both moving continual range queries and continual kNN queries. copy 2006 IEEE. 32 Refs.

Identifiers: Moving object databases; Spatio-temporal index queries; Motion-sensitive bounding boxes (MSBs)

T S17/3, KWIC/1

17/3, KWIC/1 (Item 1 from file: 8)

DIALOG(R) File 8:Ei Compendex(R)

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Abstract: This paper describes a motion-adaptive indexing efficient evaluation of moving continual queries (MCQs) objects. It uses the concept of motion-sensitive bounding to model moving objects and moving queries. These bound automatically adapt their sizes to the dynamic motion behavior individual objects. Instead of indexing frequently changing positions, we index less frequently changing object and query where updates to the bounding boxes are needed only when queries move across the boundaries of their boxes. This reduces the number of updates to the indexes. More importantly, we predict query results to optimistically precalculate query decreasing the number of searches on the indexes. Motion-bounding boxes are used to incrementally update the predicted results. Furthermore, we introduce the concepts of guaranteed and optimistic safe radius to extend our motion-adaptive indexing to evaluating moving continual k-nearest neighbor (kNN) queries. Experiments show that the proposed motion-adaptive indexing is efficient for the evaluation of both moving continual range and moving continual kNN queries. copy 2006 IEEE. 32 Re

Identifiers: Moving object databases; Spatio-temporal index; Continual queries ; Motion-sensitive bounding boxes (MSB)?

Identifiers: Moving object databases; Continual queries; M
bounding boxes (MSB); Indexing

15/3, KWIC/3 (Item 3 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

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06460510 E.I. No: EIP03307561484

Title: Trajectory queries and octagons in moving object dat

Author: Zhu, Hongjun; Su, Jianwen; Ibarra, Oscar H.

Corporate Source: Department of Computer Science Univ. o
Santa Barbara, Santa Barbara, CA, United States

Conference Title: Proceedings of the Eleventh Internationa
Information and Knowledge Management (CIKM 2002)

Conference Location: McLean, VA, United States Co
20021104-20021109

E.I. Conference No.: 61158

Source: International Conference on Information and Knowle
Proceedings 2002. p 413-421

Publication Year: 2002

Language: English

Abstract: An important class of queries in moving obje
involves trajectories. We propose to divide trajectory pred
topological and non-topological...

...databases, approximations of trajectories are typically
evaluating trajectory queries. In earlier studies, minimum
boxes (MBBs) are used to approximate trajectory segments w
index structures to be built, e...

?

15/3,KWIC/2 (Item 2 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

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07418360 E.I. No: EIP05219121495

Title: Motion adaptive indexing for moving continual querying objects

Author: Gedik, Bugra; Wu, Kun-Lung; Yu, Philip; Liu, Ling

Corporate Source: Georgia Institute of Tech., Atlanta, GA,

Conference Title: CIKM 2004: Proceedings of the Thirteenth on Information and Knowledge Management

Conference Location: Washington, DC, United States C
20041108-20041113

E.I. Conference No.: 64711

Source: International Conference on Information and Knowledge Proceedings CIKM 2004: Proceedings of the Thirteenth ACM Information and Knowledge Management 2004.

Publication Year: 2004

Language: English

Title: Motion adaptive indexing for moving continual moving objects

Abstract: This paper describes a motion adaptive indexing efficient evaluation of moving continual queries (MCQs) objects. It uses the concept of motion-sensitive bound-in (MSBs) to model moving objects and moving queries. These boxes automatically adapt their sizes to the dynamic motion individual objects. Instead of indexing...

...object positions, we index less frequently changing object MSBs, where updates to the bounding boxes are needed only when queries move across the boundaries of their boxes. To decrease the number of updates to the indexes. More importantly predictive...

...to optimistically precalculate query results, decreasing searches on the indexes. Motion-sensitive bounding boxes incrementally update the predictive query results. Our experiments show that the proposed motion adaptive indexing scheme is efficient for the evaluation of moving continual range queries. Copyright Refs.